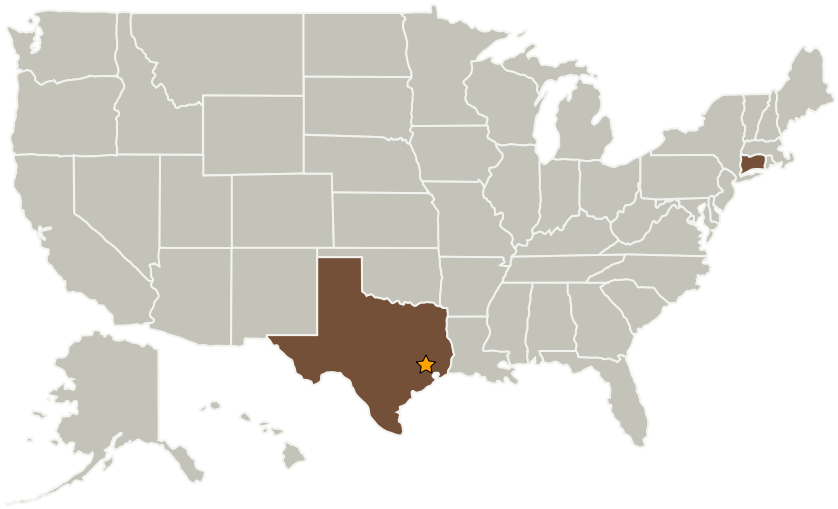
Lower Profile, Lighter Weight Space Suit Bearings, Phase I

Completed Technology Project (2005 - 2005)

Project Introduction

Air-Lock will deliver a final report based on the follwoing: 1. Historical summary of bearing design evolution throughout the life of the EMU Program 2. Material research to identify lightweight materials best suited for each beairng. 3. Redesign of current EMU bearings to lower bearing profile and mass.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Johnson Space Center(JSC)	Lead Organization	NASA Center	Houston, Texas
Air-Lock, Inc.	Supporting Organization	Industry	Milford, Connecticut

Primary U.S. Work Locations	
Connecticut	Texas

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Johnson Space Center (JSC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Completed Technology Project (2005 - 2005)

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Michael P Mccarthy

Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
  - TX06.2 Extravehicular Activity Systems
    - TX06.2.4 Decompression Sickness Mitigation